

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P599612

Luminaire Tested: **IFLD-S-SA6A-830-U-SLL-HSS**

Issue Date: 05/04/2022

Tested By:

Approved By:



Cooper Lighting Solutions laboratories have been accredited by National Voluntary Laboratory Accreditation Program (NVLAP) that it adheres to the requirements of ISO/IEC 17025:2005 and appropriate IESNA test methods. This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the Federal Government. Results contained in this report are valid for luminaire sample tested, as supplied by requestor. Information related to the luminaire tested has been supplied by requestor and can affect the validity of the test results. Report shall not be reproduced except in full without approval of Cooper Lighting Solutions Lighting Laboratory. Test performed at address noted above.

Test Information

Test Method: LM-79-08
 Report Number: P599612
 Test Lab: INNOVATION CENTER(G1)
 Issue Date: 05/04/2022
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-S-SA6A-830-U-SLL-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SLL distribution lens with House Side Shield
 Light Source: (96) 3000K CCT, 80 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

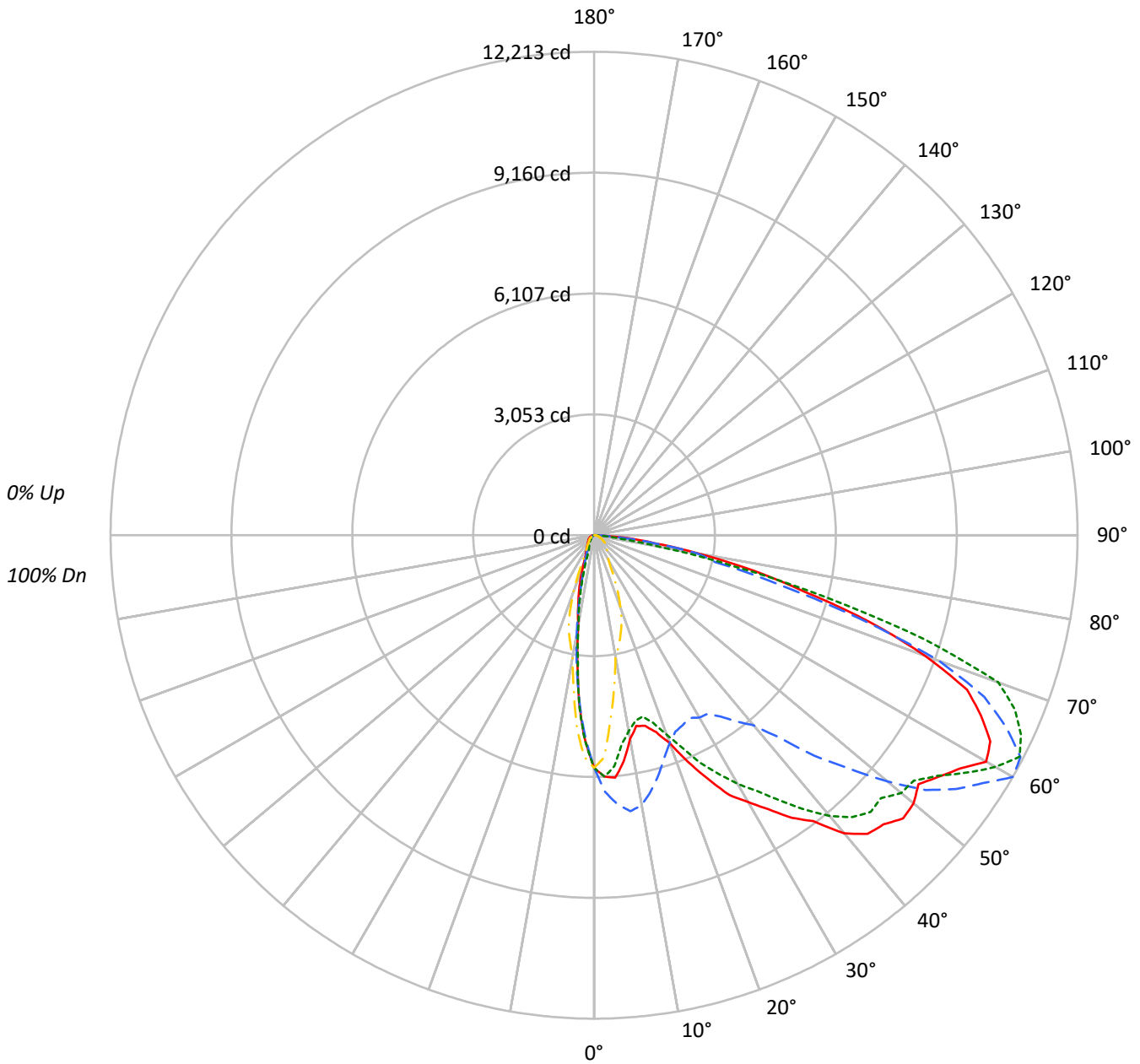
Lumens per Lamp: N/A
 Luminaire Lumens: 15620.1 lumens
 Efficiency: N/A
 Efficacy: 82.4 lumens/watt
 Spacing Criteria (0/90/45): 0.53 / 0.46 / 0.63
 Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
 CIE Type: Direct

Input Watts (W): 189.6
 Input Voltage (V): 120
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021
Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021

TEST NUMBER: P599612
CATALOG NUMBER: IFLD-S-SA6A-830-U-SLL-HSS

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ··· 90°-270° - · 135°-315°

TEST NUMBER: P599612
 CATALOG NUMBER: IFLD-S-SA6A-830-U-SLL-HSS

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	106	100	95	90	103	98	93	89	94	90	86	90	86	83	86	83	81	79	79	79	79
2	94	84	76	69	91	82	75	68	78	72	66	75	70	65	72	67	63	61	61	61	61
3	84	72	62	54	81	70	61	53	67	59	52	64	57	51	61	55	50	48	48	48	48
4	76	62	51	44	73	60	51	43	58	49	43	55	48	42	53	46	41	39	39	39	39
5	69	54	44	36	67	53	43	36	51	42	35	48	41	35	46	40	34	32	32	32	32
6	63	48	38	30	61	47	37	30	45	36	30	43	35	30	41	35	29	27	27	27	27
7	58	43	33	26	56	42	33	26	40	32	26	39	31	26	37	31	25	23	23	23	23
8	54	39	29	23	52	38	29	23	37	28	23	35	28	22	34	27	22	20	20	20	20
9	50	35	26	20	49	35	26	20	34	26	20	32	25	20	31	25	20	18	18	18	18
10	47	33	24	18	46	32	24	18	31	23	18	30	23	18	29	23	18	16	16	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	42145	42145	42145	42145
5°	44289	42155	30798	30978
10°	38084	36625	16838	16443
15°	37031	35203	10939	8243
20°	42683	40899	5861	2931
25°	53668	50200	3798	2279
30°	64460	60071	3076	1866
35°	76333	71620	2521	1498
40°	92097	86705	2228	1133
45°	104853	100282	2074	762
50°	117627	113063	2049	466
55°	133021	132551	2036	209
60°	164148	168041	1856	60
65°	183155	201996	1700	0
70°	186761	227980	1576	0
75°	151965	168154	1503	0
80°	110490	70330	1550	0
85°	71434	29533	2058	0

TEST NUMBER: P599612
 CATALOG NUMBER: IFLD-S-SA6A-830-U-SLL-HSS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	446.2	2.9
10°-20°	874.9	5.6
20°-30°	1210.8	7.8
30°-40°	1711.1	11.0
40°-50°	2329.7	14.9
50°-60°	3085.5	19.8
60°-70°	3582.5	22.9
70°-80°	2028.8	13.0
80°-90°	350.5	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2531.8	16.2
0°-40°	4243.0	27.2
0°-60°	9658.2	61.8
0°-90°	15620.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	15620.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5873	5873	5873	5873	5873	
5°	6148	5852	4276	4300	6148	552
15°	4985	4738	1472	1110	4985	1462
25°	6778	6340	480	288	6778	3161
35°	8714	8176	288	171	8714	5493
45°	10332	9882	204	75	10332	8010
55°	10632	10595	163	17	10632	9633
65°	10787	11896	100	0	10787	10515
75°	5481	6065	54	0	5481	5982
85°	868	359	25	0	868	1042
90°	0	0	0	0	0	

TEST NUMBER: P599612
 CATALOG NUMBER: IFLD-S-SA6A-830-U-SLL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1
2.5°	6102.5	6231.8	6236.0	6294.3	6352.7	6352.7	6490.4	6457.0	6336.1	6315.2	6227.6
5°	6148.4	6194.2	6227.6	6523.8	6774.0	6749.0	6824.1	6774.0	6540.4	6240.1	6035.7
7.5°	5752.1	5802.1	5935.6	6440.3	6778.2	6890.8	7032.7	6719.8	6473.7	5931.5	5539.4
10°	5226.5	5322.5	5568.6	6144.2	6561.3	6920.0	6920.0	6669.8	6194.2	5664.5	5184.8
12.5°	4934.5	5126.4	5259.9	5843.9	6386.1	6632.2	6623.9	6490.4	6181.7	5514.3	4972.1
15°	4984.6	5038.8	5322.5	5777.1	6135.8	6123.3	6273.5	6231.8	6014.9	5647.8	5051.3
17.5°	5214.0	5297.4	5543.5	5777.1	5948.1	5898.1	5893.9	6094.1	6106.6	5873.1	5347.5
20°	5589.4	5835.5	5952.3	6023.2	5814.7	5601.9	5576.9	5856.4	6073.3	6160.9	5702.0
22.5°	6190.1	6352.7	6590.5	6227.6	5685.4	5418.4	5368.3	5677.0	6115.0	6502.9	6160.9
25°	6778.2	6903.3	7132.8	6665.6	5831.3	5380.9	5293.3	5560.2	6273.5	6978.4	6715.6
27.5°	7399.7	7508.2	7533.2	6986.8	5910.6	5305.8	5201.5	5560.2	6407.0	7228.7	7378.9
30°	7779.3	7908.6	7933.6	7270.4	6039.9	5368.3	5318.3	5585.2	6498.7	7441.4	7854.4
32.5°	8204.8	8238.1	8217.3	7320.5	6181.7	5551.9	5343.3	5752.1	6603.0	7695.9	8288.2
35°	8713.6	8772.0	8559.3	7549.9	6498.7	5668.7	5593.6	5956.5	6782.4	7812.7	8813.8
37.5°	9101.6	9285.1	8805.4	7637.5	6561.3	5914.8	5927.3	6381.9	6907.5	7954.5	9393.6
40°	9831.5	9522.9	9222.5	7937.8	6799.1	6331.9	6265.1	6819.9	7328.8	8046.3	9773.1
42.5°	10232.0	10069.3	9385.2	7967.0	7166.1	6907.5	6924.2	7316.3	7549.9	8304.9	9877.4
45°	10332.1	10161.1	9606.3	7987.9	7529.0	7587.4	7875.2	7950.3	7875.2	8475.9	10073.5
47.5°	10586.5	10215.3	9581.3	8267.3	8117.2	8342.4	8709.5	8872.2	8317.4	8413.3	10165.2
50°	10536.5	10323.7	9527.0	8384.1	8834.6	9431.1	9677.2	9610.5	8809.6	8284.0	10065.1
52.5°	10327.9	10098.5	9693.9	8701.1	9506.2	10227.8	10569.8	10403.0	9247.6	8576.0	9998.4
55°	10632.4	10457.2	9910.8	9130.8	10010.9	10928.6	11170.5	11045.3	9785.6	8847.1	10378.0
57.5°	10961.9	10924.4	10498.9	9635.5	10607.4	11650.2	11650.2	11495.8	10252.8	9239.2	10941.1
60°	11437.4	11520.9	10932.7	9969.2	10811.8	11608.5	12213.3	12033.9	10724.2	9927.5	11579.3
62.5°	11283.1	11550.1	11491.7	10686.6	11045.3	11812.9	12142.4	12275.9	11308.1	10765.9	12430.2
65°	10786.7	11070.4	11487.5	11158.0	10870.2	11316.5	11483.3	11887.9	11600.1	11554.2	12780.6
67.5°	10194.4	10503.1	10761.7	11475.0	10515.6	10811.8	10665.8	10795.1	11283.1	12417.7	12980.8
70°	8901.4	9197.5	9606.3	10770.0	9577.1	9310.1	9272.6	9210.0	9969.2	12109.0	12071.5
72.5°	7320.5	7458.1	8133.8	8755.4	7086.9	7036.8	7095.2	7024.3	7904.4	10961.9	10340.4
75°	5481.0	5618.6	6002.4	6724.0	4826.1	4538.3	4872.0	5201.5	6035.7	8509.3	7428.9
77.5°	4121.1	4296.3	4538.3	5030.5	3541.4	3090.9	3136.7	3449.6	4363.1	6815.7	4162.9
80°	2673.7	2652.9	3120.1	3462.1	2665.4	2748.8	2632.0	2861.4	3161.8	3645.6	2127.3
82.5°	1543.3	1564.2	1760.2	1985.5	1856.2	2123.1	1530.8	2556.9	2256.6	1484.9	792.5
85°	867.6	905.2	1084.5	1376.5	1163.8	780.0	638.2	1268.0	1418.2	609.0	383.8
87.5°	87.6	75.1	146.0	521.4	317.0	129.3	191.9	304.5	342.0	229.4	112.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P599612
 CATALOG NUMBER: IFLD-S-SA6A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1
2.5°	6102.5	6102.5	5998.2	5823.0	5752.1	5627.0	5455.9	5510.2	5451.8	5239.0	5184.8
5°	5852.2	5652.0	5435.1	5168.1	5013.8	4696.8	4596.7	4417.3	4446.5	4267.1	4275.5
7.5°	5330.8	5172.3	4805.2	4454.8	4150.3	3875.0	3487.1	3341.1	3199.3	3128.4	3211.8
10°	5026.3	4730.1	4229.6	3770.8	3366.2	3120.1	2861.4	2661.2	2477.7	2340.0	2310.8
12.5°	4805.2	4542.4	3937.6	3378.7	3061.7	2861.4	2623.7	2348.4	2169.0	1931.3	1860.4
15°	4738.5	4417.3	3779.1	3224.3	2915.7	2586.1	2315.0	2043.9	1810.3	1560.0	1472.4
17.5°	4967.9	4596.7	3774.9	3099.2	2665.4	2310.8	1935.4	1630.9	1393.2	1163.8	1109.5
20°	5355.8	4788.5	3895.9	3024.1	2427.6	1952.1	1526.7	1222.2	955.2	805.0	767.5
22.5°	5798.0	5113.9	3908.4	2823.9	2189.9	1593.4	1113.7	805.0	654.9	584.0	563.1
25°	6340.2	5635.3	4058.6	2661.2	1910.4	1209.6	792.5	617.3	529.7	488.0	479.7
27.5°	6786.5	5998.2	4221.3	2490.2	1635.1	896.8	621.5	504.7	458.8	417.1	412.9
30°	7249.6	6415.3	4267.1	2385.9	1397.4	738.3	533.9	446.3	396.3	375.4	371.2
32.5°	7654.2	6870.0	4413.1	2214.9	1172.1	650.7	483.9	400.4	367.1	333.7	329.5
35°	8175.6	7132.8	4484.0	2123.1	1088.7	588.1	442.1	367.1	317.0	296.2	287.8
37.5°	8734.5	7387.2	4529.9	2052.2	1017.8	550.6	417.1	346.2	300.3	271.1	262.8
40°	9255.9	7745.9	4463.2	1964.6	963.5	504.7	400.4	321.2	279.5	250.3	237.8
42.5°	9656.3	8096.3	4442.3	1881.2	905.2	488.0	379.6	308.7	262.8	229.4	225.2
45°	9881.6	8334.1	4296.3	1814.5	859.3	496.4	371.2	292.0	250.3	221.1	204.4
47.5°	9827.4	8517.6	4333.9	1793.6	796.7	463.0	367.1	279.5	229.4	204.4	191.9
50°	10127.7	8888.8	4271.3	1726.9	750.8	417.1	400.4	279.5	225.2	196.0	183.5
52.5°	10177.7	9226.7	4404.8	1605.9	679.9	383.8	396.3	275.3	216.9	187.7	171.0
55°	10594.9	9618.8	4663.4	1539.2	621.5	333.7	362.9	267.0	196.0	171.0	162.7
57.5°	11162.1	10432.2	4830.3	1476.6	542.3	292.0	304.5	262.8	179.4	158.5	146.0
60°	11708.6	10757.5	4842.8	1364.0	467.2	262.8	237.8	262.8	166.8	141.8	129.3
62.5°	12117.3	10757.5	4759.3	1268.0	408.8	233.6	208.6	250.3	150.2	125.1	116.8
65°	11896.3	10469.7	4542.4	1188.8	371.2	204.4	179.4	191.9	133.5	108.5	100.1
67.5°	11500.0	9572.9	4062.8	1092.9	367.1	179.4	154.3	141.8	116.8	95.9	87.6
70°	10866.0	8363.3	3382.8	984.4	358.7	162.7	137.6	121.0	104.3	83.4	75.1
72.5°	8755.4	6907.5	2778.0	921.8	350.4	141.8	116.8	104.3	87.6	70.9	62.6
75°	6064.9	4413.1	2139.8	788.4	342.0	129.3	108.5	91.8	75.1	58.4	54.2
77.5°	3637.3	2949.0	1380.7	592.3	225.2	104.3	91.8	70.9	62.6	50.1	45.9
80°	1701.9	1393.2	558.9	229.4	108.5	75.1	62.6	54.2	50.1	41.7	37.5
82.5°	667.4	588.1	271.1	133.5	87.6	58.4	50.1	45.9	41.7	33.4	29.2
85°	358.7	317.0	129.3	91.8	62.6	41.7	41.7	37.5	33.4	29.2	25.0
87.5°	79.3	58.4	54.2	54.2	45.9	33.4	33.4	29.2	25.0	20.9	16.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P599612
 CATALOG NUMBER: IFLD-S-SA6A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1
2.5°	5155.6	5218.2	5118.1	5180.6	5093.0	5159.8	5168.1	5105.6	5122.2	5205.7	5243.2
5°	4392.3	4350.6	4258.8	4229.6	4233.8	4179.5	4200.4	4229.6	4275.5	4300.5	4375.6
7.5°	3165.9	3261.9	3257.7	3328.6	3332.8	3324.4	3266.1	3140.9	3182.6	3149.3	3191.0
10°	2265.0	2306.7	2385.9	2431.8	2515.2	2469.4	2335.9	2285.8	2260.8	2256.6	2298.3
12.5°	1810.3	1710.2	1701.9	1718.5	1760.2	1706.0	1639.3	1580.9	1610.1	1668.5	1714.4
15°	1401.5	1318.1	1209.6	1193.0	1201.3	1176.3	1105.4	1030.3	1051.1	1109.5	1142.9
17.5°	1076.2	980.2	905.2	855.1	838.4	750.8	646.5	584.0	567.3	563.1	592.3
20°	725.8	709.1	696.6	634.0	634.0	508.9	421.3	375.4	375.4	383.8	387.9
22.5°	542.3	521.4	525.6	513.1	479.7	379.6	333.7	321.2	321.2	329.5	329.5
25°	471.3	442.1	433.8	429.6	396.3	325.4	292.0	279.5	279.5	287.8	287.8
27.5°	400.4	392.1	379.6	362.9	333.7	279.5	258.6	246.1	250.3	254.4	250.3
30°	367.1	346.2	329.5	329.5	296.2	250.3	233.6	225.2	216.9	225.2	229.4
32.5°	325.4	312.8	304.5	292.0	254.4	221.1	204.4	196.0	191.9	191.9	196.0
35°	279.5	279.5	271.1	254.4	221.1	200.2	179.4	171.0	166.8	171.0	171.0
37.5°	250.3	237.8	241.9	225.2	196.0	175.2	154.3	146.0	146.0	141.8	146.0
40°	233.6	212.7	200.2	191.9	175.2	150.2	133.5	125.1	121.0	121.0	121.0
42.5°	208.6	191.9	166.8	162.7	158.5	129.3	108.5	104.3	100.1	95.9	95.9
45°	196.0	171.0	150.2	129.3	129.3	108.5	91.8	83.4	79.3	75.1	79.3
47.5°	179.4	154.3	129.3	108.5	104.3	87.6	70.9	62.6	58.4	58.4	58.4
50°	171.0	137.6	112.6	91.8	79.3	70.9	54.2	45.9	41.7	41.7	41.7
52.5°	158.5	129.3	100.1	79.3	62.6	54.2	41.7	33.4	29.2	29.2	29.2
55°	141.8	116.8	87.6	66.7	54.2	41.7	29.2	20.9	16.7	16.7	16.7
57.5°	133.5	104.3	75.1	58.4	41.7	29.2	16.7	12.5	12.5	8.3	12.5
60°	121.0	91.8	62.6	45.9	33.4	20.9	12.5	4.2	4.2	4.2	4.2
62.5°	104.3	79.3	54.2	37.5	25.0	12.5	4.2	0.0	0.0	0.0	0.0
65°	87.6	62.6	41.7	29.2	16.7	4.2	0.0	0.0	0.0	0.0	0.0
67.5°	75.1	54.2	33.4	20.9	12.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	66.7	45.9	25.0	16.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	54.2	37.5	20.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	45.9	29.2	12.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	37.5	20.9	8.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.2	16.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.7	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P599612
 CATALOG NUMBER: IFLD-S-SA6A-830-U-SLL-HSS

CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1	5873.1
2.5°	5297.4	5272.4	5397.5	5601.9	5706.2	5910.6	5960.7	6090.0	6056.6	6102.5
5°	4383.9	4434.0	4617.5	4917.9	5026.3	5322.5	5601.9	5881.4	6060.8	6148.4
7.5°	3253.5	3420.4	3645.6	3920.9	4200.4	4588.3	5063.8	5389.2	5564.4	5752.1
10°	2423.5	2602.8	2861.4	3132.6	3587.2	4021.0	4496.6	4901.2	5051.3	5226.5
12.5°	1906.2	2185.7	2486.0	2778.0	3049.2	3462.1	4050.2	4638.4	4801.1	4934.5
15°	1326.4	1668.5	2098.1	2477.7	2857.3	3216.0	3825.0	4538.3	4759.3	4984.6
17.5°	734.1	1005.3	1497.5	2031.4	2590.3	3140.9	3900.1	4721.8	5055.5	5214.0
20°	425.5	533.9	884.3	1518.3	2256.6	2978.2	3937.6	5068.0	5510.2	5589.4
22.5°	350.4	387.9	500.5	951.0	1847.8	2874.0	4129.5	5551.9	6002.4	6190.1
25°	300.3	329.5	387.9	571.5	1397.4	2652.9	4250.5	6156.7	6573.8	6778.2
27.5°	267.0	296.2	342.0	421.3	951.0	2348.4	4450.7	6703.1	7120.2	7399.7
30°	233.6	258.6	304.5	358.7	659.1	2006.3	4621.7	7103.6	7691.7	7779.3
32.5°	208.6	229.4	262.8	308.7	488.0	1522.5	4759.3	7516.5	8012.9	8204.8
35°	179.4	204.4	225.2	262.8	371.2	1147.1	4675.9	7837.7	8484.2	8713.6
37.5°	158.5	175.2	196.0	221.1	312.8	896.8	4504.9	8221.4	8888.8	9101.6
40°	133.5	146.0	171.0	196.0	283.6	692.4	4308.9	8684.4	9456.1	9831.5
42.5°	112.6	125.1	141.8	183.5	233.6	513.1	3912.6	9043.2	9915.0	10232.0
45°	87.6	104.3	129.3	183.5	187.7	379.6	3503.8	9310.1	10173.6	10332.1
47.5°	66.7	83.4	125.1	158.5	150.2	262.8	3020.0	9614.6	10440.5	10586.5
50°	50.1	66.7	141.8	137.6	125.1	200.2	2715.5	9827.4	10457.2	10536.5
52.5°	33.4	50.1	116.8	104.3	104.3	175.2	2632.0	9819.0	10498.9	10327.9
55°	25.0	37.5	66.7	75.1	91.8	154.3	2556.9	10131.9	10511.4	10632.4
57.5°	16.7	29.2	45.9	58.4	79.3	133.5	2402.6	10507.3	10899.4	10961.9
60°	8.3	20.9	33.4	45.9	66.7	116.8	2185.7	10782.6	11370.7	11437.4
62.5°	4.2	12.5	25.0	37.5	54.2	91.8	1960.5	10344.6	11166.3	11283.1
65°	0.0	8.3	16.7	25.0	33.4	66.7	1593.4	9339.3	10357.1	10786.7
67.5°	0.0	0.0	8.3	16.7	20.9	50.1	1201.3	8496.7	9610.5	10194.4
70°	0.0	0.0	4.2	4.2	12.5	37.5	767.5	7036.8	8580.2	8901.4
72.5°	0.0	0.0	0.0	0.0	4.2	25.0	446.3	5226.5	6724.0	7320.5
75°	0.0	0.0	0.0	0.0	0.0	20.9	225.2	3362.0	4680.1	5481.0
77.5°	0.0	0.0	0.0	0.0	0.0	16.7	121.0	2169.0	3449.6	4121.1
80°	0.0	0.0	0.0	0.0	0.0	4.2	70.9	1259.7	2206.6	2673.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	29.2	617.3	1318.1	1543.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	8.3	329.5	659.1	867.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5	45.9	87.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)